

Title (en)  
Thermal installation

Title (de)  
Heisanlage

Title (fr)  
Installation thermique

Publication  
**EP 2397778 B1 20120725 (FR)**

Application  
**EP 10189813 A 20101103**

Priority  
FR 0957987 A 20091113

Abstract (en)  
[origin: FR2952706A1] The heater has a heating body (1) circulating coolant i.e. water associated with an antifreeze. A lower compartment (3) of the body comprises coolant inlet and outlet units e.g. lower and upper connection orifices (13, 14), connected to a domestic heating circuit (16). Inlet and outlet units are arranged in lower and upper zones of the compartment. A heat exchanger (7) of a heat pump circuit is arranged in the lower zone. Another heat exchanger (11) is arranged on the former exchanger and connected to a heating system (12) i.e. fossil energy heating system. Independent claims are also included for the following: (1) a thermal installation comprising a connection unit (2) a method for controlling a heat exchanger of a thermal installation.

IPC 8 full level  
**F24D 3/08** (2006.01); **F24D 12/02** (2006.01); **F24D 19/10** (2006.01); **F24H 1/50** (2006.01); **F28D 20/00** (2006.01)

CPC (source: EP US)  
**F24D 3/082** (2013.01 - EP); **F24D 12/02** (2013.01 - EP); **F24D 19/1072** (2013.01 - EP US); **F24H 1/50** (2013.01 - EP); **F28D 20/0034** (2013.01 - EP); **F24D 2200/04** (2013.01 - EP); **F24D 2200/10** (2013.01 - EP); **F24D 2200/12** (2013.01 - EP); **F24D 2200/32** (2013.01 - EP); **F24D 2220/0242** (2013.01 - EP); **F24D 2220/06** (2013.01 - EP); **F24D 2240/22** (2013.01 - EP); **F28D 2020/0078** (2013.01 - EP); **F28D 2020/0086** (2013.01 - EP); **Y02B 30/00** (2013.01 - EP); **Y02E 60/14** (2013.01 - EP)

C-Set (source: EP)  
**F24D 2220/06** + **F24D 2240/22**

Cited by  
US11415327B2; CN102563866A; FR2984999A1; CN104121616A; CN107726616A; US11732905B2; WO2014044864A1; WO2013093246A1; EP3835665A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**FR 2952706 A1 20110520**; **FR 2952706 B1 20120420**; EP 2397778 A1 20111221; EP 2397778 B1 20120725; ES 2391383 T3 20121123; PL 2397778 T3 20130329

DOCDB simple family (application)  
**FR 0957987 A 20091113**; EP 10189813 A 20101103; ES 10189813 T 20101103; PL 10189813 T 20101103